

## IN THE SPECIFICATION

On page 7, please delete lines 1-4 which read:

Figure 7. Classification results for the Run 13 (a) and Run 06 (b) estimated reflectance cubes from ELM, ATREM, and Spatial SPIRE algorithms. Run 13 and the training data from Run 07 were collected on the same day under similar illumination conditions as. The Run 06 data occurred on a different day with different illumination conditions.

On page 20, please delete lines 9-16 which read:

Figure 7 shows typical classification results, exemplified by the results for Run 13 (a) and Run 06 (b). Run 13 was collected on the same day as the training data from Run 07 under similar illumination conditions, so classification performance is good for all three algorithms. The Run 06 data was collected on a different day with different illumination conditions. The performance was poor for ATREM due to thin overhead clouds, while Spatial SPIRE performance is possibly superior to even ELM (for example, note the mowed grass). This demonstrates Spatial SPIRE's advantages relative to physics-based codes and the utility of SPIRE reflectance estimates in downstream processing applications such as pixel classification.